

Technical Details of How Orixia is created

This section of the Help System is not useful for people using an Orixia App, or even for those working on administration of Orixia Apps.

It details the underlying code-base that builds the system, and is for use by coders of the system.

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What is an Orixia App?

Orixia Apps are fully compiled Windows executable files. They are first-class programs, like Word, Excel or Powerpoint. Orixia is not web-based (although data in Orixia Apps can easily be saved / stored and shared via cloud-based systems). Orixia is not a system built on someone else's web-framework. Orixia is not an add-on or extension to other large-scale software tools such as SAP, SAGE or Oracle.

When you buy an Orixia system you are buying your own enterprise level database which you will own and manage, you will not be dependent on a third party for a complex product built on a complex tool-chain which may change at any time. Once you have a working system no random updates or changes will be made that may break or damage it.

Orixia removes most of the complexity of a client-server system by creating a robust framework which minimizes the need for a database admin. However Orixia includes most of the advantages of a client-server database such as multi-user access, detailed audit logs and fall-over recovery / back-up.

Software tools used to build Orixia

Orixia Apps are built using a software tool called Delphi, which can be used to build any type of computer program. Many of the world's largest software products are built with Delphi, and it has a history that stretches back 25 years. While this is old by the standards of modern systems Delphi is an up-to-date product which is in full active development, meaning that as extensions to operating systems like Windows occur, Delphi is kept up to date to cope with these changes.

This means we can quickly build a main application for you, using the Orixia Framework with its many pre-programmed modules, and then add on additional bespoke functionality such as tablet-computer based Apps, or Android Phone Apps which will link directly into your main database using Delphi.

Orixia also leverages best-in-class software tools so that we do not need to do the hard work of writing every single element of your program. A few of the companies whose tools we use are detailed below.

Delphi by Embarcadero

Delphi is a long-standing development environment which has been used to develop enterprise strength programmes for more than 25 years.

While it is one of the programming environments with the longest track-record it is constantly modernized and is capable of producing code that fully conforms to all modern specifications and requirements.

The Delphi software eco-system is rich and large, with a good number of skilled coders and many software houses writing code to support the product and add extra features.

At Orixia Delphi is used for all App development.

Links to Embarcadero:

embarcadero.com/products/delphi



Dev-Express visual components

DevExpress are one of the strongest developers of components for visual aspects of Apps. Their multi-award-winning code powers the applications of many of the world's biggest businesses.

Links for DevEx:

devexpress.com/products/vcl/



Elevate Software

Elevate have been building database tools for almost 20 years. Their ElevateDB is a powerful "pocket battleship." A fully ISO SQL2003 compliant Client-Server database, Elevates features are fair too complex to summarize in one or two paragraphs.

At Orixia we have been using Elevate since around 2003, and it has remained in constant development and enhancement throughout that time, meaning that today it is still a powerful cutting-edge tool.

One of the major advantages of Elevate is that there are no user-fees or licenses for their product, meaning you do not have to pay extra for extra users.

Links for Elevate Software:

elevatesoft.com/products



Fast Reports
Reporting must be Fast!

Fast Reports

Fast Reports build a full range of reporting tools. Orixia uses their reporting engine for generation of printed reports and PDFs.

It is a modern solution for integrating Business Intelligence in your software. Fast Reports incorporates a wide range of reporting capability including generation of an extremely wide range of reporting formats and full end-user customizability.

Links for Fast Reports:

fast-report.com/en/



tmssoftware.com

TMS Software

Orixia Apps use TMS for provision of:

- Mapping tools for geolocation.
- Diagramming tools for system design and management and for adding visualizations such as factory plans to your App.

Links for TMS:

tmssoftware.com/site/